

Abstract of the Disclosure

A method for increasing the number of polynucleotides containing sequences corresponding to a mRNA species present in a sample, comprises the steps of: (i) reverse transcription of the mRNA species using a heeled 5'-amplification primer (FAP-RAND) and a
5 heeled 3'-amplification primer (TAP-RT), wherein each primer sequence is unique, and either or each heel sequence includes a RNA polymerase promoter site, and the FAP includes a variable sequence, whereby the RNA is reverse-transcribed to produce double-stranded cDNA and then multiple cDNAs according to the variable sequence; and (ii) amplification of the cDNA using
10 primers sufficiently complementary to the primers, *i.e.*, FAP and TAP, within FAP-RAND and TAP-RT. In one embodiment, the method additionally comprises the step of: (iii) *in vitro* transcription, to produce RNA run-offs from either end of the amplicons.